

09/880988

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,660,229 B2
DATED : December 9, 2003
INVENTOR(S) : Cantor et al.

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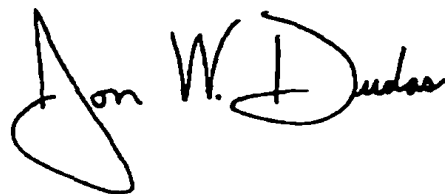
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Drawings.

Please replace Figures 1a-8 with the Formal Figures 1a-8.

Signed and Sealed this

Twelfth Day of October, 2004

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office

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FIG. 1a

Sequence #1: AGCGTA

Primer 3016 Da	Extension Products	Mass (Da)
—	agcgta	4878.2
—	agcgt	4565.0
—	agcg	4260.8**
—	agc	3931.6
—	ag	3642.4*
—	a	3313.2

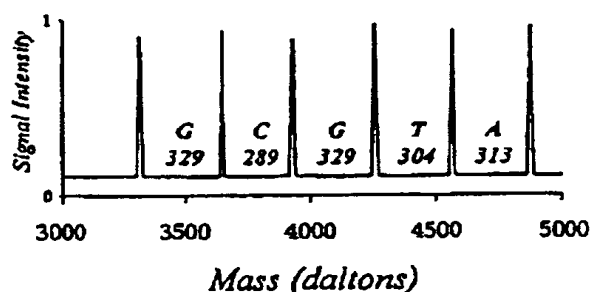


FIG. 1b

Sequence #2: GATCCT

Primer 3016 Da	Extension Products	Mass (Da)
—	gagcct	4854.2
—	gagcc	4550.0
—	gagc	4260.8**
—	gag	3971.6
—	ga	3642.4*
—	g	3329.2

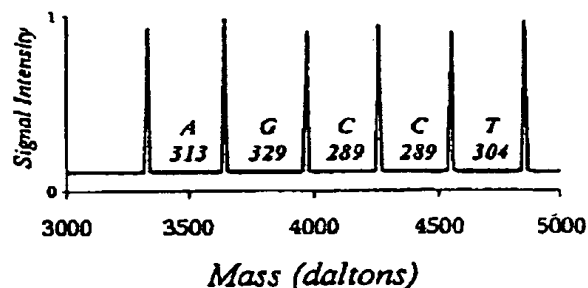


FIG. 1c

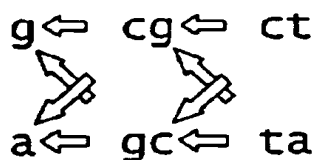
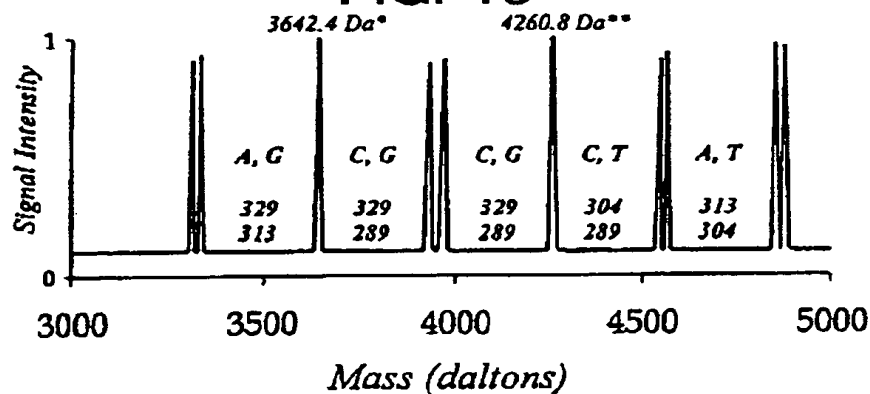


FIG. 1d

gcgct
GCGTA
 ggcct
 ggcta
 acgct
 acgta
AGCCT
 agcta

FIG. 1e

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Nucleotide Mass (Da)

ddN	310
ddC	273
ddT	288
ddA	297
ddG	313

Sequence #1: GCATG

Primer #1	Extension	Mass (Da)
3327 Da	Products	
————	nnnng	4880
————	nnnt	4545
————	nna	4244
————	nc	3910
————	g	3640

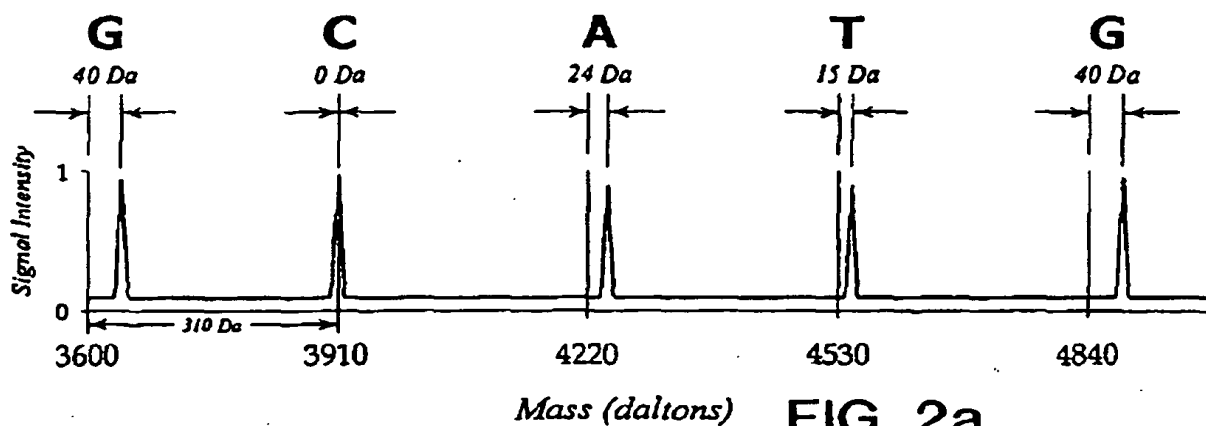


FIG. 2a

Sequence #2: CATGC

Primer #2	Extension	Mass (Da)
3404 Da	Products	
————	nnnnc	4917
————	nnng	4647
————	nnt	4312
————	na	4011
————	c	3677

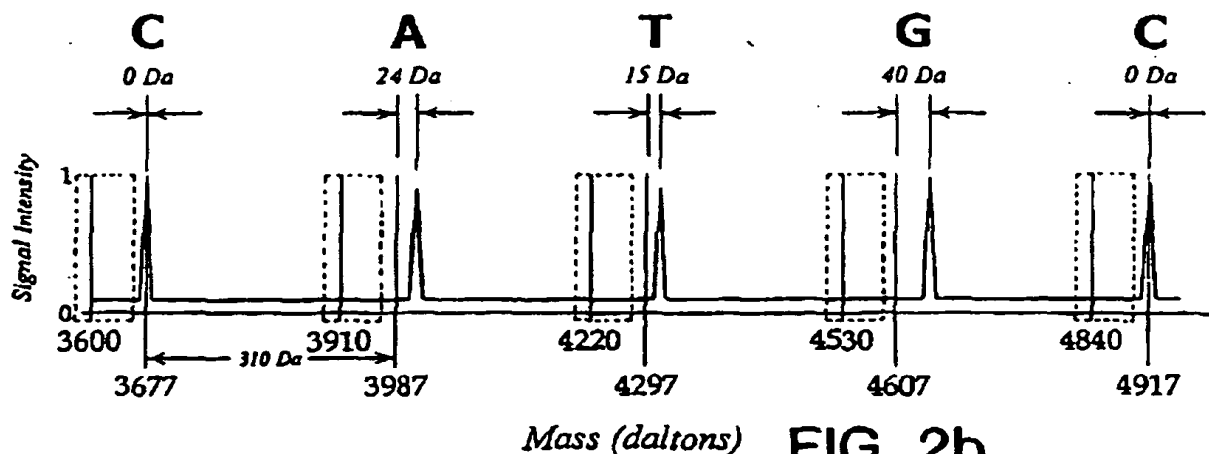


FIG. 2b

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Sequence #1: GCATA

Primer #1 3327 Da	Extension Products	Mass (Da)
————	nnnna	4864
————	nnnt	4545
————	nna	4244
————	nc	3910
————	g	3640

Sequence #3: CATGC

Primer #3 3404 Da	Extension Products	Mass (Da)
————	nnnnc	4917
————	nnng	4647
————	nnt	4312
————	na	4011
————	c	3677

Sequence #2: TCAGG

Primer #2 3481 Da	Extension Products	Mass (Da)
————	nnnng	5034
————	nnng	4724
————	nna	4398
————	nc	4064
————	t	3769

Sequence #4: AACTC

Primer #4 3558 Da	Extension Products	Mass (Da)
————	nnnnc	5071
————	nnnt	4776
————	nnc	4451
————	na	4165
————	a	3855

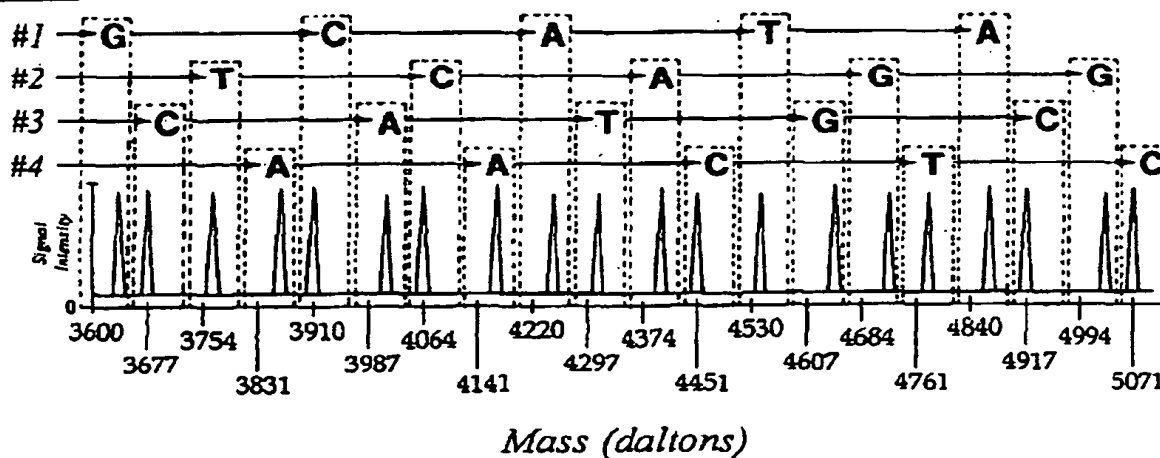
Sequence

FIG. 3

FIG. 4a

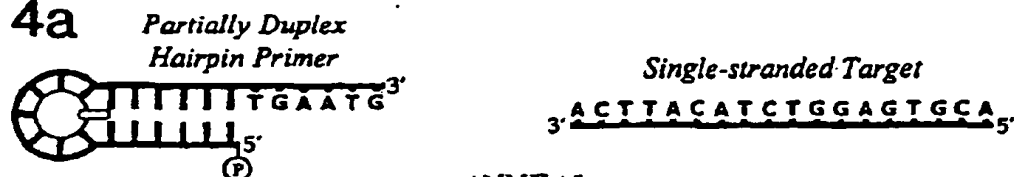
ANNEAL
LIGATE

FIG. 4b

SEQUENCING REACTION
with Mass-matched Terminators (M)

FIG. 4c

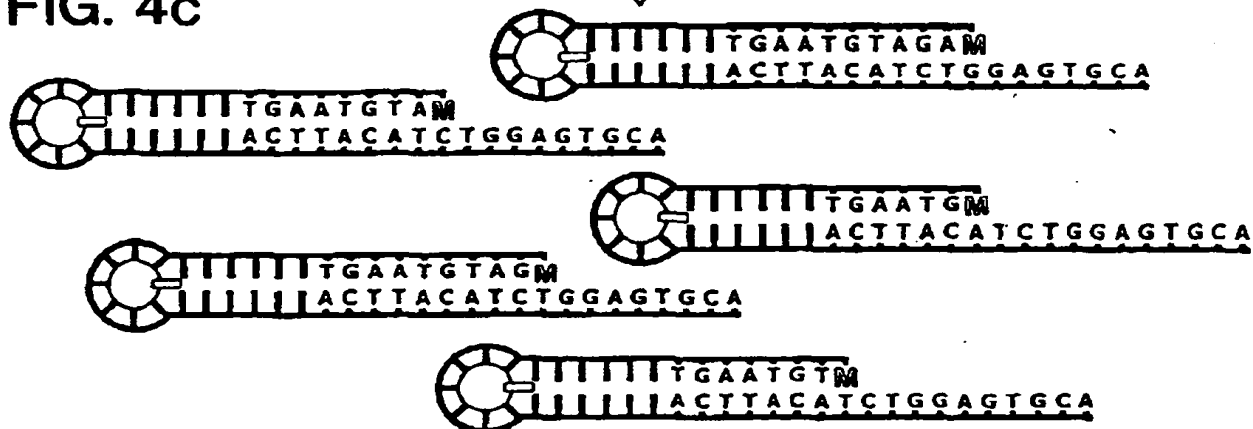
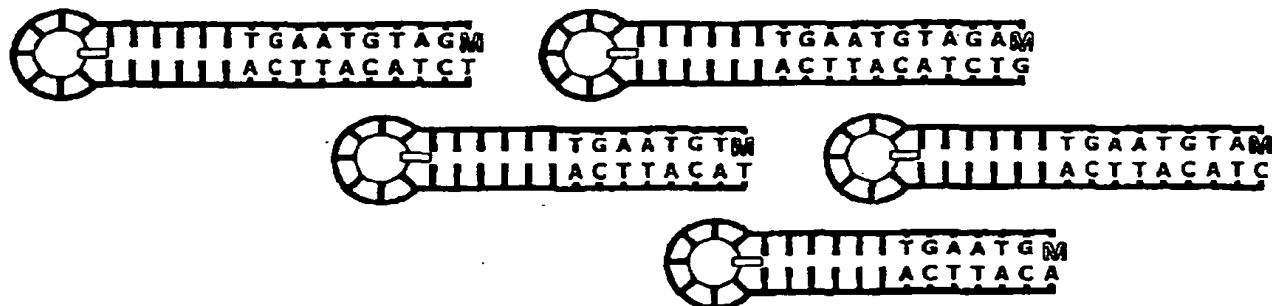
SINGLE STRAND-SPECIFIC
NUCLEASE

FIG. 4d



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<i>Reaction Products</i>	<i>Mass (Da)</i>
	12868.6
	12227.2
	11594.8
	10992.4
	10384.0

FIG. 5a

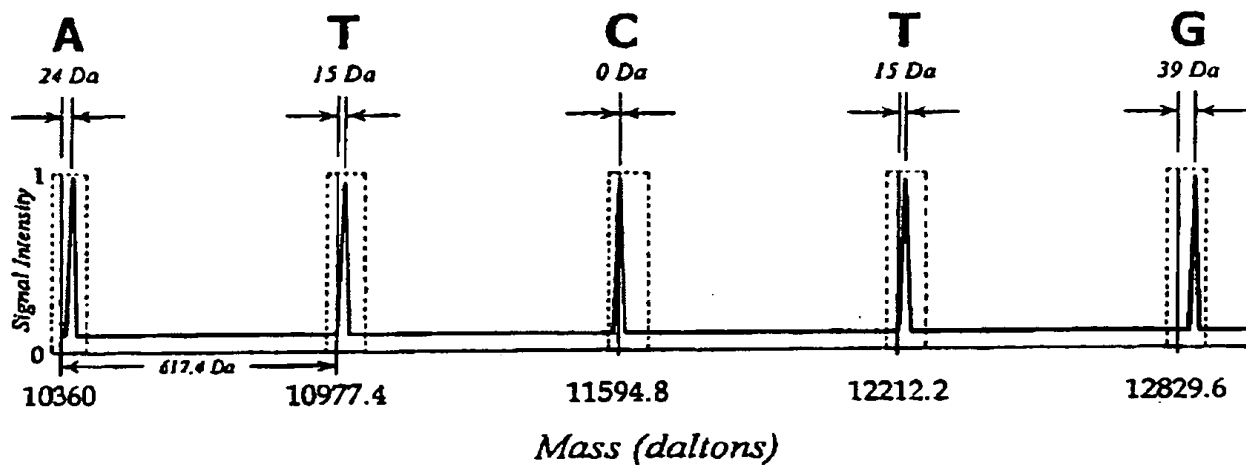


FIG. 5b

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<u>Variant #1: AACTGCAT</u>			<u>Variant #2: AACTTCAT</u>			<u>Variant #3: AAGTGCAT</u>		
Primer	Extension	Mass (Da)	Primer	Extension	Mass (Da)	Primer	Extension	Mass (Da)
3616 Da	Products		3616 Da	Products		3616 Da	Products	
— aactgcat		6054	— aactccat		6029*	— aagtgcac		6094**
— aactgca		5750	— aactcca		5725*	— aagtgc		5790**
— aactgc		5437	— aactcc		5412*	— aagtgc		5477**
— aactg		5148	— aactc		5123*	— aagt		5188**
— aact		4819	— aact		4819	— aagt		4859**
— aac		4515	— aac		4515	— aag		4555**
— aa		4226	— aa		4226	— aa		4226
— a		3913	— a		3913	— a		3913

FIG. 6a

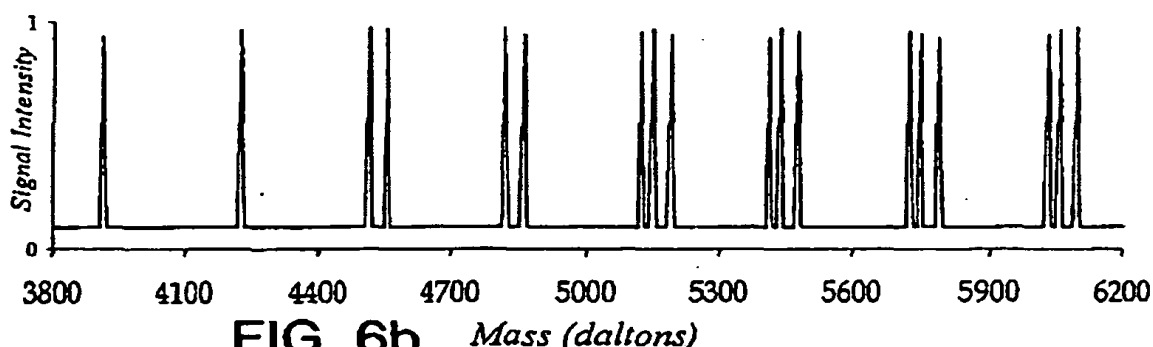


FIG. 6b Mass (daltons)

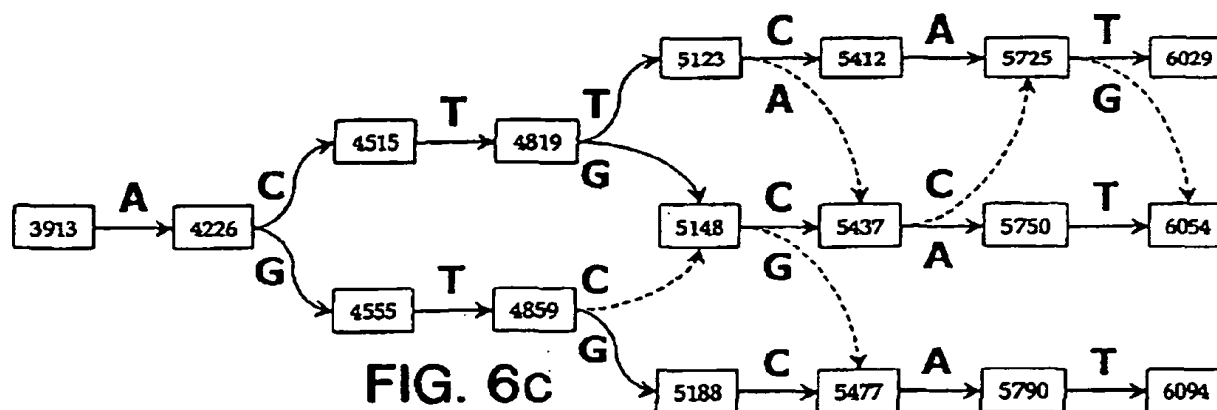


FIG. 6c

ACTGCAT actgccg actgcct actggat acttaat acttacg acttact
 acttcag ACTTCAT agtccat agtcccg agtcctt agtcgat AGTGCAT

FIG. 6d

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Variant #1: AACTGCAT			Variant #2: AACTTCAT			Variant #3: AAGTGCAT		
Primer	Extension Products	Mass (Da)	Primer	Extension Products	Mass (Da)	Primer	Extension Products	Mass (Da)
1527 Da	AAAAAAAAAT	5985	3527 Da	AAAAAAAAAT	5985	3527 Da	AAAAAAAAAT	5985
	AAAAAAAAA	5684		AAAAAAAAA	5684		AAAAAAAAA	5684
	AAAAATCAT	5350		AAAAATCAT	5350		AAAAATCAT	5350
	AAATTCG	5080		AAATTCG	5080		AAATTCG	5080
	AAATC	4745		AAATC	4745		AAATC	4745
	AAAC	4420		AAAC	4420		AAAC	4420
	AA	4134		AA	4134		AA	4134
	A	3824		A	3824		A	3824

FIG. 7a

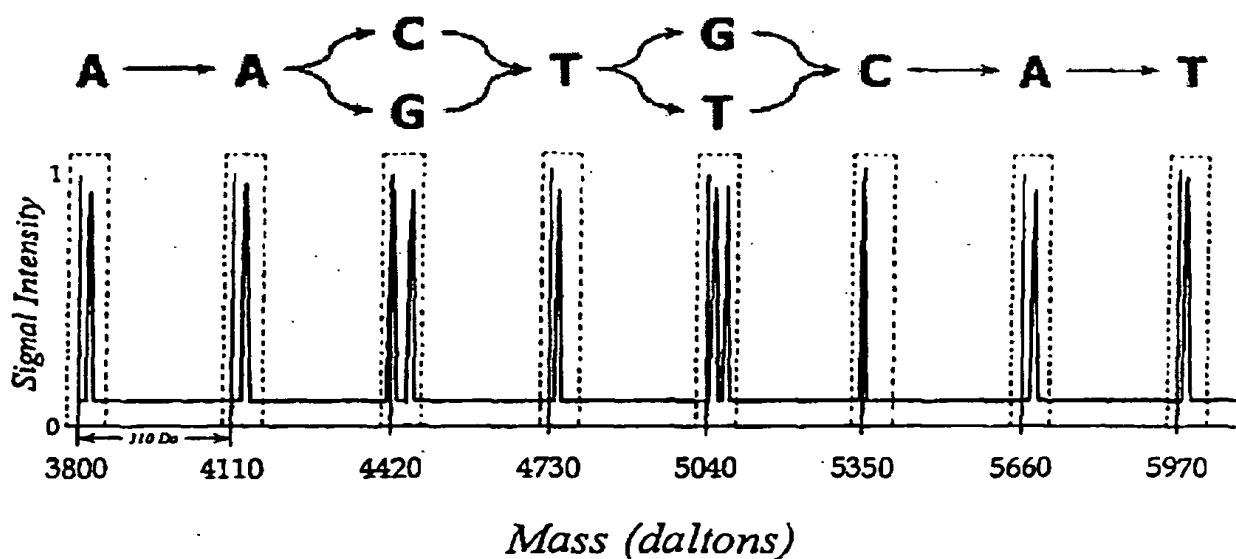


FIG. 7b

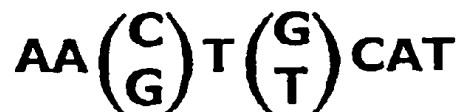


FIG. 7c

AACTGCAT
 AACTTCAT
 AAGTGCAT
 aagttcat

FIG. 7d

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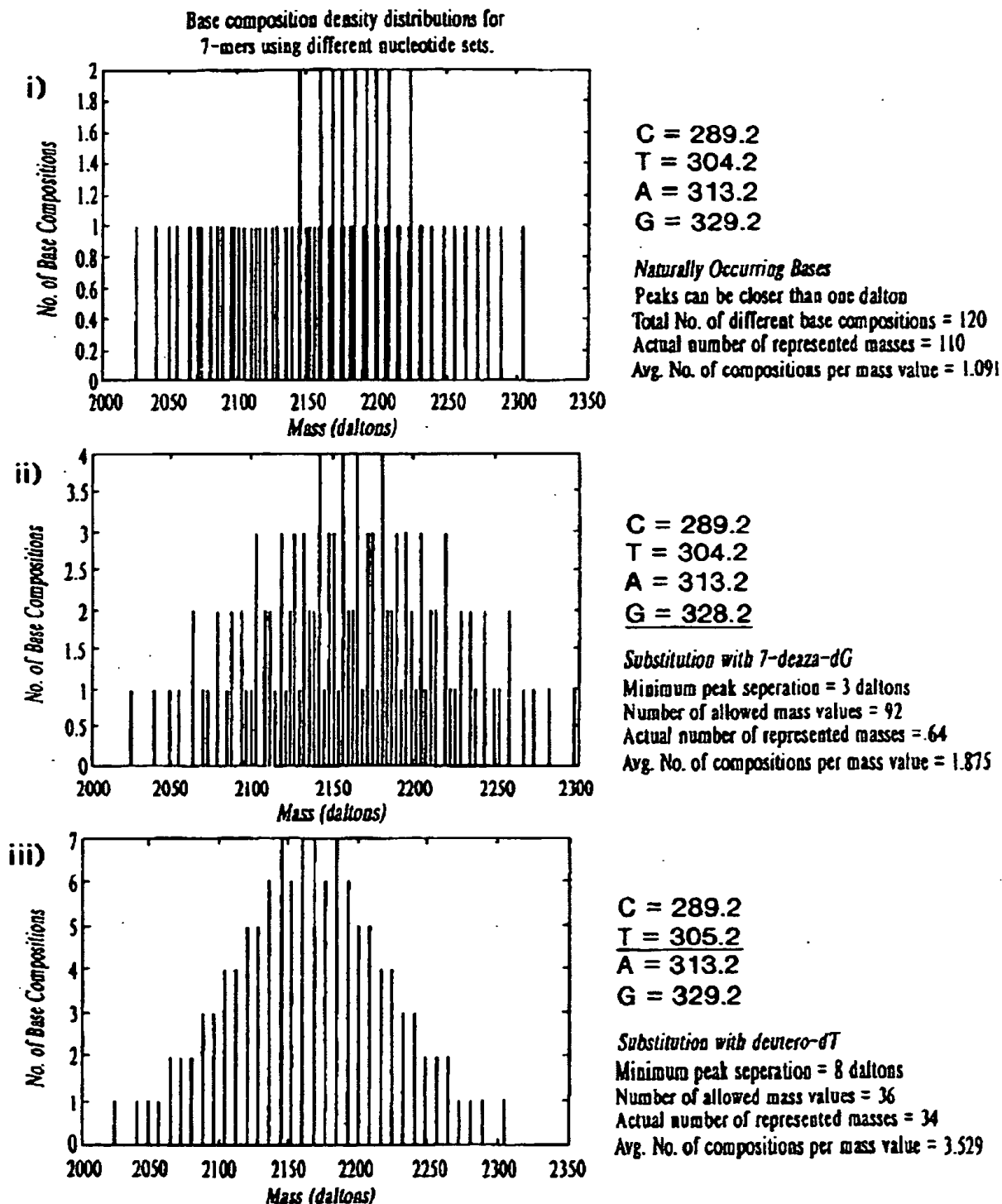


FIG. 8